The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name
PRE-ELEC PS 18014

Company product code
PS18014

Reach registration number
-

Product definition
Mixture containing carbon black.
Also covers the nanoform of carbon black. In the product, carbon black is bound in the base polymer.

1.2 Relevant identified uses of the substance or mixture and uses advised against

The uses of the chemical
Production of electrostatic conductive products

Classification of economic activities (NACE)	C20.16
Main intended use	PC-TEC-16 Polymer preparations and compounds
Industrial use	Yes
Professional use	Yes
Consumer use	No

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, other undertaking	PREMIX OY
Street address	Muovitie 4
Postcode and post office	FIN-05200 Rajamäki
Post-office box	P.O.Box 12
Postcode and post office	FIN-05201 Rajamäki
Telephone number	+358 9 878 041
Telefax	+358 9 878 04400
Web page	www.premixgroup.com
Finnish Business ID (Y code)	FI32443519

1.4 Emergency telephone number

Emergency telephone number (Europe): 112
Other countries: check local emergency number

Poison Information centre (Finland) open 24 h daily: +358 800 147 111 or +358 9 471 977
P.O. Box 790 (Tukholmankatu 17), 00029 HUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not classified as a hazardous mixture according the CLP regulation (EU 1272/2008).

2.2 Label elements

No labeling. In accordance with current regulations, this product has not been classified as hazardous.

2.3 Other hazards

Carbon black in particulate form (dust) is listed as a possible carcinogen to humans (group 2B) by the International Agency for Research on Cancer (IARC). In the product, carbon black is bound in the base polymer and exposure to dust containing carbon black can be ruled out in normal use.
The product does not contain any known or suspected endocrine disruptors.
PBT/vPvB assessment: see point 12.5.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

CAS/EC number and the registration number	Name of the ingredient	Concentration	Classification
CAS 1333-86-4 EC 215-609-9	Carbon black	10 – 30 %	Not classified, national occupational exposure limit value
CAS 100-42-5 EC 202-851-5 Index number: 601-026-00-0	Styrene	< 0.1 %	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 H332 STOT RE 1 H372 (hearing organs) Repr. 2 H361d

Carbon black is in nanoform. In the product, carbon black is bound in the base polymer.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General

If the situation is unclear or symptoms persist, seek medical attention.

Inhalation

If symptoms occur, move the exposed person to fresh air and keep under observation. Get medical attention if symptoms persist or are severe.

Skin contact

Rinse with water. In case of skin contact with molten plastic, cool the skin rapidly with water. Do not attempt to remove plastic glued to burnt skin without medical assistance.

Eye contact

Immediately flush eyes with plenty of water. Carefully remove any particles remaining under the eyelids. Seek medical attention if eye irritation persists.

Ingestion

Do not induce vomiting. Rinse the mouth with water and give 1–2 glasses of water to drink. Get medical advice/attention if the exposed person feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact with molten plastic causes thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Water spray, foam, carbon dioxide (CO_2)

5.2 Special hazards arising from the substance or mixture

Oxides of carbon and hydrocarbon fragments.

5.3 Advice for firefighters

Wear appropriate protective equipment and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special precautions needed.

6.2 Environmental precautions

Do not let the granules contaminate sewers, waters or soil.

6.3 Methods and material for containment and cleaning up

Sweep up the spill and place in suitable container for use or disposal.

6.4 Reference to other sections

See section 7 for safe handling.
See section 8 for personal protective equipment.
See section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands before breaks and at the end of workday. Wash contaminated clothes before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

7.3 Specific end use(s)

None reported.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limit values

Carbon black	CAS No.: 1333-86-4	**Limit value (long-term exposure)** 3.5 mg/m3 (8 h) Country of origin: United Kingdom 3.5 mg/m3 (8 h) Country of origin: Finland **Limit value (short-term exposure)** 7 mg/m3 (15 min) Country of origin: United Kingdom 7 mg/m3 (15 min) Country of origin: Finland
Styrene	CAS No.: 100-42-5	**Limit value (long-term exposure)** 86 mg/m3 (8 h) Country of origin: United Kingdom 86 mg/m3 (8 h) Country of origin: Finland **Limit value (short-term exposure)** 430 mg/m3 (15 min) Country of origin: United Kingdom 430 mg/m3 (15 min) Country of origin: Finland

Other limit values

N/A

DNEL

N/A

PNEC

N/A

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation, use local exhaust ventilation if necessary.

Eye/face protection

Wear suitable protective goggles if there is a risk of eye contact.

Skin protection

Normal work clothing.

Hand protection

Use appropriate protective gloves when handling the product.

Respiratory protection

If it is not possible to reduce exposure levels to below exposure limit values by ventilation, use an appropriate respirator.

Thermal hazards

Molten plastic may cause thermal burns. Wear appropriate heat resistant protective clothing and gloves if needed.

Environmental exposure controls

Do not let the granules contaminate sewers, waters or soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	solid, granule
Odour	characteristic odour
Odour threshold	Not applicable.
pH	Not applicable
Melting point/freezing point	Melting range > 150 °C
Initial boiling point and boiling range	Not applicable
Flash point	> 350 °C
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable.
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Particle characteristics	Carbon black: Nanoform Comments: In the product, carbon black is bound in plastic and risk of exposure to carbon black as dust can be ruled out in normal use.
Relative density	0.9 - 1.1 g/cm3
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	Not applicable

Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

9.2 Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Not reactive under normal use and storage conditions.

10.2 Chemical stability
Stable under normal storage and handling conditions.

10.3 Possibility of hazardous reactions
No known dangerous reactions under normal use and storage conditions.

10.4 Conditions to avoid
Heat.
Do not allow product to remain in barrel at elevated temperatures for extended period of time.

10.5 Incompatible materials
No known incompatible materials.

10.6 Hazardous decomposition products
Oxides of hydrocarbon fragments.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

The product is not classified as acute toxic. There is no toxicity data available for the product as such.

Carbon black: LD50 (oral, rat): > 8000 mg/kg.

In the compound, the carbon black is bound in the base polymer.

Skin corrosion/irritation

The product is not classified as corrosive/irritant.

Serious eye damage/irritation

The product is not classified as corrosive/irritant.

Respiratory or skin sensitisation

The product is not classified as a sensitiser.

Germ cell mutagenicity

The product is not classified as mutagenic.

Carcinogenicity

The product is not classified as carcinogenic.
Carbon black is listed as a possible carcinogen to humans (group 2B) by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) or U.S. Occupational Safety and Health Administration (OSHA).

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

The product is not classified as toxic to specific target organs through single exposure.

STOT-repeated exposure

The product is not classified as toxic to specific target organs through prolonged or repeated exposure.

Aspiration hazard

The product is not classified as hazardous with aspiration.

11.2 Other information

Endocrine disruption

The product does not contain any known or suspected endocrine disruptors

.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not classified as hazardous for environment. There is no ecotoxicity data available for the product as such.

Carbon black:
fish: LC50 (96 h) > 100 mg/L (Brachydanio rerio, OECD 203)
water flea: EC50 (24 h) > 5600 mg/L (Daphnia magna, OECD 202)
algae: EC50 (72 h) > 10.000 mg/L (Scenedesmus subspicatus).
In the compound, the carbon black is bound in the base polymer.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

Not bioaccumulative.

12.4 Mobility in soil

Insoluble in water.

12.5 Results of PBT and vPvB assessment

Chemical safety assessment has not been performed for the product, no information available about ingredients.

12.6 Endocrine disrupting properties

The product does not contain any known or suspected endocrine disruptors.

12.7 Other adverse effects

None reported.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product is not considered hazardous waste.
Reuse or recycle if possible. Dispose of according to national and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

The product is not classified for transportation.

14.2 UN proper shipping name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

none

14.6 Special precautions for user

none

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No specific regulations.

15.2 Chemical safety assessment

Chemical safety assessment has not been performed for the product, no information available about ingredients.

SECTION 16: OTHER INFORMATION

Changes to the previous version

13.10.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878).

Glossary of abbreviations

DNEL: Derived No-Effect Level
EC50: Effective concentration 50%
LC50: Lethal concentration 50%
LD50: Lethal dose 50%
PNEC: Predicted No-Effect Concentration

References

Previous version of the SDS 21.3.2022.
Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020), Finland.
EH40/2005 Workplace exposure limits (4th ed, 2020).

Procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

-

List of relevant hazard and precautionary statements

-

Training appropriate for workers

Read the safety data sheet.

Other information

-